

TRANSMITTAL LETTER TO THE UNITED 514 Rec'd

STATES DESIGNATED/ELECTED OFFICE (DO/EO/US)  
CONCERNING A FILING UNDER 35 U.S.C. 371S-8  
PCTO 31 JAN 2000  
APPLICATION NO. 09/463881 (7 C.F.R. 1.5)  
EXPRESS MAIL NO.  
EL469957185US

INTERNATIONAL APPLICATION NO.	INTERNATIONAL FILING DATE	PRIORITY DATE CLAIMED
PCT/GB98/02316	31 July 1998	31 July 1997

## TITLE OF INVENTION: METHOD AND APPARATUS FOR DETERMINING MOLECULAR CRYSTAL STRUCTURES

APPLICANT(S) FOR DO/EO/US: DAVID, William I. And SHANKLAND, Kenneth

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

1.  This is a **FIRST** submission of items concerning a filing under 35 U.S.C. 371.
2.  This is a **SECOND** or **SUBSEQUENT** submission of items concerning a filing under 35 U.S.C. 371.
3.  This express request to begin national examination procedures (35 U.S.C. 371(f)) at any time rather than delay examination until the expiration of the applicable time limit set in 35 U.S.C. 371 (b) and PCT Articles 22 and 39(1).
4.  A proper Demand for International Preliminary Examination was made by the 19th month from the earliest claimed priority date.
5.  A copy of the International Application as filed (35 U.S.C. 371(c)(2))
  - a.  is transmitted herewith (required only if not transmitted by the International Bureau).
  - b.  has been transmitted by the International Bureau.
  - c.  is not required, as the application was filed in the United States Receiving Office (RO/US).
6.  A translation of the International Application into English (35 U.S.C. 371(c)(2)).
7.  Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))
  - a.  are transmitted herewith (required only if not transmitted by the International Bureau).
  - b.  have been transmitted by the International Bureau.
  - c.  have not been made; however, the time limit for making such amendments has NOT expired.
  - d.  have not been made and will not be made.
8.  Amendments to the claims of the International Application under PCT Article 34.
  - a.  are transmitted herewith (required only if not transmitted by the International Bureau).
  - b.  have been transmitted by the International Bureau.
  - c.  have not been made; however, the time limit for making such amendments has NOT expired.
  - d.  have not been made and will not be made.
9.  A translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).
10.  An unsigned oath or declaration from the inventor. (35 U.S.C. 371 (c)(4)).
11.  A translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).

Items 12. to 16. below concern other document(s) or information included:

12.  An information Disclosure Statement under 37 CFR 1.97 and 1.98.
13.  An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.
14.  A **FIRST** preliminary amendment.  
 A **SECOND** or **SUBSEQUENT** preliminary amendment.
15.  A substitute specification.
16.  A change of power of attorney and/or address letter.
17.  Other items or information:  
Certificate of Express Mailing Under 37 CFR 1.10

09/46380

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9267-8

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18.  The following fees are submitted:

CALCULATIONS

PTO USE ONLY

Basic National Fee (37 CFR 1.492(a)(1)-(5)): Search Report has been prepared by the EPO or JPO .....	\$840.00
International preliminary examination fee paid to USPTO (37 CFR 1.482) .....	\$670.00
No international preliminary examination fee paid to USPTO (37 CFR 1.482) but international search fee paid to USPTO (37 CFR 1.445(a)(2)) .....	\$760.00
Neither international preliminary examination fee (37 CFR 1.482) nor international search fee (37 CFR 1.445(a)(2)) paid to USPTO .....	\$970.00
International preliminary examination fee paid to USPTO (37 CFR 1.482) and all claims satisfied provisions of PCT Article 33(2)-(4) .....	\$ 96.00

ENTER APPROPRIATE BASIC FEE AMOUNT =

\$840.00

Surcharge of \$130.00 for furnishing the oath or declaration later than 20  30  
months from the earliest claimed priority date (37 CFR 1.492(e)).

\$130.00

Claims	Number Filed	Number Extra	Rate	
Total Claims	20 - 20 =	0	x \$18.00	\$ 0.00
Independent Claims	2 - 3 =	0	x \$78.00	\$ 0.00
Multiple dependent claim(s) (if applicable)			+ \$260.00	\$ 0.00

TOTAL OF ABOVE CALCULATIONS =

\$970.00

Reduction by 1/2 for filing by small entity, applicable. Verified Small Entity Statement must also be filed. (Note 37 CFR 1.9, 1.27, 1.28).

\$ 0.00

SUBTOTAL = \$ 970.00

Processing fee of \$130.00 for furnishing the English translation later than 20 30  
months from the earliest claimed priority date (37 CFR 1.492(f)).

+ \$ 0

TOTAL NATIONAL FEE = \$ 970.00

Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate  
cover sheet (37 CFR 3.28, 3.31). \$40.00 per property

\$ 0.00

TOTAL FEES ENCLOSED = \$ 970.00

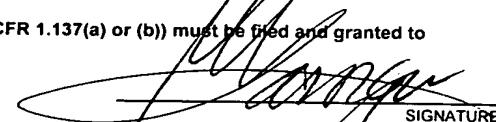
Amount to be  
refunded \$

charged \$ 970.00

a.  A check in the amount of \$ \_\_\_\_\_ to cover the above fees is enclosed.b.  Please charge my Deposit Account No. 19-1135 in the amount of \$970.00 to cover the above fee. A duplicate copy of this sheet is enclosed.c.  The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 19-1135. A duplicate of this sheet is enclosed.

NOTE: Where an appropriate time limit under 367 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the application to pending status.

SEND ALL CORRESPONDENCE TO:

SEIDEL, GONDA, LAVORGNA & MONACO, P.C.  
Two Penn Center Plaza  
Suite 1800  
Philadelphia, Pennsylvania 19102  
United States of America

SIGNATURE

Gregory J. Lavorgna

NAME

30,469

REGISTRATION NUMBER

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

William I. David and  
Kenneth Shankland

International Application No.:

PCT/GB98/02316

520 Rec'd PCT/PTO 31 JAN 2000

Filed:

Concurrently herewith

Examiner: Not Yet Assigned

For:

Method and Apparatus For  
Determining Molecular Crystal  
Structures

**CERTIFICATE OF EXPRESS MAIL ACCOMPANYING  
TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/  
ELECTED OFFICE (DO/EO/US)  
CONCERNING A FILING UNDER 35 U.S.C. 371**

ASSISTANT COMMISSIONER FOR PATENTS  
BOX PCT  
WASHINGTON, D.C. 20231

Dear Sir:

I hereby certify that the attached Transmittal Letter (PTO Form 1390) and accompanying documents are being deposited with the "Express Mail Post Office to Addressee" service of the United States Postal Service in an envelope addressed to: Assistant Commissioner For Patents, BOX PCT, Washington, D.C. 20231 on 31 January 2000.

The number of the "Express Mail" mailing label (No. **EL469957185US**) has been placed on the accompanying correspondence prior to mailing. It is therefore respectfully requested that the attached be considered as having been filed in the Office on the date shown above in accordance with the provisions of 37 C.F.R. 1.10.

Respectfully submitted,

Lynne C. Webb  
Lynne C. Webb

31 January 2000  
(Date)